

## Assoc. Prof. AYSUN YURTTAŞ GÜNEŞ

### Personal Information

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### International Researcher IDs

ScholarID: 6SO9120AAAAJ

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### Education Information

Doctorate, Bursa Uludağ University, FEN BİLİMLERİ ENSTİTÜSÜ, Matematik (Dr), Turkey 2009 - 2014

Postgraduate, Bursa Uludağ University, FEN BİLİMLERİ ENSTİTÜSÜ, Matematik (YI) (Tezli), Turkey 2005 - 2008

Undergraduate, Bursa Uludağ University, FEN-EDEBİYAT FAKÜLTESİ, Matematik Bölümü, Turkey 2000 - 2004

### Foreign Languages

English, C2 Mastery

### Dissertations

Doctorate, Graf operasyonlarının Zagreb ve çarpımsal Zagreb indeksleri, Bursa Uludağ University, FEN BİLİMLERİ ENSTİTÜSÜ, Matematik (Dr), 2014

Postgraduate, Kimya ve Grup Teori, Bursa Uludağ University, FEN BİLİMLERİ ENSTİTÜSÜ, Matematik (YI) (Tezli), 2008

### Research Areas

Group Theory and Generalizations, Combinatorics

### Academic Titles / Tasks

Associate Professor, Bursa Uludağ University, Fen-Edebiyat Fakültesi, Matematik, 2024 - Continues

Assistant Professor, Bursa Uludağ University, Fen-Edebiyat Fakültesi, Matematik, 2021 - 2024

Research Assistant, Bursa Uludağ University, FEN-EDEBİYAT FAKÜLTESİ, MATEMATİK, 2006 - 2021

### Courses

Yüksek Lisans Uzmanlık Alan Dersi IV, Postgraduate, 2023 - 2024  
Metrik Uzaylar, Undergraduate, 2023 - 2024, 2022 - 2023  
ANALYSIS IV, Undergraduate, 2023 - 2024, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017  
Calculus II, Undergraduate, 2023 - 2024, 2021 - 2022  
Tez Danışmanlığı IV, Postgraduate, 2023 - 2024  
Tez Danışmanlığı II, Postgraduate, 2022 - 2023  
Matematik I, Undergraduate, 2023 - 2024, 2022 - 2023  
Topolojik Graf İndeksleri II, Postgraduate, 2022 - 2023  
Tez Danışmanlığı III, Postgraduate, 2023 - 2024  
Yüksek Lisans Uzmanlık Alan Dersi III, Postgraduate, 2023 - 2024  
Genelleştirilmiş Polinomlar II, Postgraduate, 2022 - 2023  
Yüksek Lisans Uzmanlık Alan Dersi II, Postgraduate, 2022 - 2023  
Analysis III, Undergraduate, 2023 - 2024, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017  
Yüksek Lisans Uzmanlık Alan Dersi I, Postgraduate, 2022 - 2023  
Tez Danışmanlığı I, Postgraduate, 2022 - 2023  
Temel Matematik I, Undergraduate, 2022 - 2023  
Topolojik Graf İndeksler I, Postgraduate, 2022 - 2023  
Mathematics, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019  
Mathematics II, Undergraduate, 2020 - 2021  
Mathematics II, Undergraduate, 2020 - 2021

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **The Effect of Vertex and Edge Removal on Sombor Index**  
YURTTAŞ GÜNEŞ A., ÖZDEN AYNA H., CANGÜL İ. N.  
SYMMETRY-BASEL, vol.16, no.2, 2024 (SCI-Expanded)
- II. **The Effect of Edge and Vertex Deletion on Omega Invariant**  
Delen S., Togan M., Yurttas Güneş A., Ana U., Cangül İ. N.  
Applicable Analysis And Discrete Mathematics, vol.14, no.3, pp.1-11, 2020 (SCI-Expanded)
- III. **Fibonacci Graphs**  
Gunes A., Delen S., Demirci M., Cevik A. S., Cangül İ. N.  
SYMMETRY-BASEL, vol.12, no.9, 2020 (SCI-Expanded)
- IV. **Matching number and characteristic polynomial of a graph**  
Yurttas Güneş A., Demirci M., Oz M. S., Cangül İ. N.  
JOURNAL OF TAIBAH UNIVERSITY FOR SCIENCE, vol.14, pp.993-999, 2020 (SCI-Expanded)
- V. **Inverse Problem for Bell Index**  
Togan M., Yurttas A., Sanli U., Celik F., Cangual İ. N.  
FILOMAT, vol.34, no.2, pp.615-621, 2020 (SCI-Expanded)
- VI. **Cut vertex and cut edge problem for topological graph indices**  
Gunes A., Togan M., Celik F., Cangül İ. N.  
JOURNAL OF TAIBAH UNIVERSITY FOR SCIENCE, vol.13, no.1, pp.1175-1183, 2019 (SCI-Expanded)
- VII. **Inverse problem for Zagreb indices**  
Yurttas A., Togan M., Loksha V., CANGÜL İ. N., Gutman I.  
JOURNAL OF MATHEMATICAL CHEMISTRY, vol.57, no.2, pp.609-615, 2019 (SCI-Expanded)
- VIII. **Inverse Problem for Sigma Index**  
Gutman I., Togan M., Yurttas A., ÇEVİK A. S., CANGÜL İ. N.  
MATCH-COMMUNICATIONS IN MATHEMATICAL AND IN COMPUTER CHEMISTRY, vol.79, no.2, pp.491-508, 2018 (SCI-Expanded)
- IX. **On the first Zagreb index and multiplicative Zagreb coindices of graphs**

Das K. C., AKGÜNEŞ N., Togan M., Yurttas A., CANGÜL İ. N., ÇEVİK A. S.  
ANALELE STIINTIFICE ALE UNIVERSITATII OVIDIUS CONSTANTA-SERIA MATEMATICA, vol.24, no.1, pp.153-176,  
2016 (SCI-Expanded)

- X. **The multiplicative Zagreb indices of graph operations**  
Das K. C., Yurttas A., Togan M., Çevik A. S., Cangül İ. N.  
JOURNAL OF INEQUALITIES AND APPLICATIONS, 2013 (SCI-Expanded)
- XI. **Determining the minimal polynomial of  $\cos(2\pi/n)$  over  $\mathbb{Q}$  with Maple**  
Özgür B., YURTTAŞ A., CANGÜL İ. N.  
FRONTIERS OF FUNDAMENTAL AND COMPUTATIONAL PHYSICS, vol.1479, pp.368-370, 2012 (SCI-Expanded)
- XII. **Some properties of the minimal polynomials of  $2\cos(\pi/q)$  for odd  $q$**   
Özgür B., DEMİRCİ M., YURTTAŞ A., CANGÜL İ. N.  
FRONTIERS OF FUNDAMENTAL AND COMPUTATIONAL PHYSICS, vol.1389, pp.353-356, 2011 (SCI-Expanded)

## Articles Published in Other Journals

- I. **The Effect Of Omega Invariant On Some Topological Graph Indices**  
DEMİRCİ M., YURTTAŞ GÜNEŞ A., Delen S., CANGÜL İ. N.  
Creative Mathematics and Informatics, vol.30, no.2, pp.175-180, 2021 (Peer-Reviewed Journal)
- II. **Distance Eccentric Connectivity Index of Graphs**  
Alqesmah A., Saleh A., Rangarajan R., Yurttas Güneş A., Cangül İ. N.  
KYUNGPOOK MATHEMATICAL JOURNAL, vol.61, no.1, pp.61-74, 2021 (ESCI)
- III. **Some degree-based topological indices of triphenylene polyester**  
TOGAN M., YURTTAŞ GÜNEŞ A., DEMİRCİ M., CANGÜL İ. N.  
Indonesian Journal of Combinatorics, vol.5, no.1, pp.26-34, 2021 (Peer-Reviewed Journal)
- IV. **Harmonic Index and Zagreb Indices of Vertex-Semitotal Graphs**  
Yurttas Güneş A., Togan M., Demirci M., Cangül İ. N.  
European Journal of Pure and Applied Mathematics, vol.13, no.5, pp.1260-1269, 2020 (ESCI)
- V. **Topological Indices of Dopamine**  
YURTTAŞ GÜNEŞ A.  
Montes Taurus J. Pure Appl. Math., vol.2, no.1, pp.63-68, 2020 (Peer-Reviewed Journal)
- VI. **Omega invariant of the line graphs of unicyclic graphs**  
Togan M., Yurttas Güneş A., Delen S., Cangül İ. N.  
Montes Taurus Journal of Pure and Applied Mathematics, vol.2, no.2, pp.45-48, 2020 (Peer-Reviewed Journal)
- VII. **Certain Topological Indices of Some Derived Graphs**  
Yurttas Güneş A., Togan M., Demirci M., Cangül İ. N.  
Turkish Journal of Analysis and Number Theory, vol.8, no.4, pp.75-79, 2020 (Peer-Reviewed Journal)
- VIII. **Connectedness of Graphs and Omega Invariant**  
CANGÜL İ. N., YURTTAŞ GÜNEŞ A., Togan M., Delen S.  
MICOPAM Proceedings Book, pp.59-62, 2019 (Peer-Reviewed Journal)
- IX. **Effect of Edge Deletion and Addition on Zagreb Indices of Graphs**  
Togan M., Yurttas Güneş A., Çevik A. S., Cangül İ. N.  
Mathematical Methods in Engineering, Theoretical Aspects, Nonlinear Systems and Complexity, vol.23, pp.191-201,  
2019 (Peer-Reviewed Journal)
- X. **ZAGREB INDICES AND MULTIPLICATIVE ZAGREB INDICES OF DOUBLE GRAPHS OF SUBDIVISION GRAPHS**  
Togan M., Yurttas A., Cevik A. S., CANGÜL İ. N.  
TWMS JOURNAL OF APPLIED AND ENGINEERING MATHEMATICS, vol.9, no.2, pp.404-412, 2019 (ESCI)
- XI. **DEGREE BASED TOPOLOGICAL INDICES OF SANIDIC POLYAMIDES**  
YURTTAŞ A.  
MATI (Mathematical Aspects of Topological Indices), vol.1, no.2, pp.64-72, 2019 (Peer-Reviewed Journal)

- XII. **Inverse problem for the first entire Zagreb index**  
Togan M., YURTTAŞ A., CANGÜL İ. N.  
Advanced Studies in Contemporary Mathematics, vol.29, no.2, pp.161-169, 2019 (Scopus)
- XIII. **Omega Invariant of Graphs and Cyclicity**  
Delen S., YURTTAŞ A., Togan M., CANGÜL İ. N.  
Applied Sciences, vol.21, pp.91-95, 2019 (Scopus)
- XIV. **Zagreb Indices of Graphs with Added Edges**  
YURTTAŞ A., TOGAN M., CANGÜL İ. N.  
Proceedings of the Jangjeon Mathematical Society, vol.21, no.3, pp.385-392, 2018 (Scopus)
- XV. **New Results on Edge and Vertex Deletion in Graphs**  
Delen S., Togan M., YURTTAŞ A., CANGÜL İ. N.  
MICOPAM Proceedings Book, pp.175-179, 2018 (Peer-Reviewed Journal)
- XVI. **Omega Invariant and Its Applications in Graph Theory**  
YURTTAŞ A., Togan M., Delen S., CANGÜL İ. N.  
MICOPAM Proceedings Book, pp.86-90, 2018 (Peer-Reviewed Journal)
- XVII. **Relations between the first and second Zagreb indices of subdivision graphs**  
YURTTAŞ A., TOGAN M., CANGÜL İ. N.  
Advanced Studies in Contemporary Mathematics, vol.28, no.3, pp.337-346, 2018 (Scopus)
- XVIII. **Zagreb and multiplicative Zagreb indices of r-subdivision graphs of double graphs**  
Togan M., Yurttas A., Cangül İ. N.  
Scientia Magna, vol.12, no.1, pp.115-119, 2017 (Peer-Reviewed Journal)
- XIX. **Zagreb indices and multiplicative Zagreb indices of subdivision graphs of double graphs**  
YURTTAŞ A., Togan M., CANGÜL İ. N.  
Advanced Studies in Contemporary Mathematics, vol.26, no.3, pp.407-416, 2016 (Scopus)
- XX. **All versions of Zagreb indices and coindices of subdivision graphs of certain graph types**  
Togan M., Yurttas A., Cangül İ. N.  
Advanced Studies in Contemporary Mathematics, vol.26, no.1, pp.227-236, 2016 (Scopus)
- XXI. **Some formulae and inequalities on several Zagreb indices of r subdivision graphs**  
YURTTAŞ A., Togan M., CANGÜL İ. N.  
Enlightments of Pure and Applied Mathematics (EPAM), vol.1, no.1, pp.29-45, 2015 (Peer-Reviewed Journal)
- XXII. **Determining the minimal polynomial of  $\cos(2\pi/n)$  over  $\mathbb{Q}$  with Maple**  
Özgür B., Yurttas Güneş A., Cangül İ. N.  
Numerical Analysis and Applied Mathematics, AIP Conf. Proc., vol.1479, pp.368-370, 2012 (Peer-Reviewed Journal)
- XXIII. **Calculation of the minimal polynomial of  $2\cos(\pi/n)$  over  $\mathbb{Q}$  with Maple, Numerical Analysis and Applied Mathematics,**  
Yurttas Güneş A., Özgür B., Cangül İ. N.  
AIP Conf. Proc, vol.1479, pp.371-374, 2012 (Peer-Reviewed Journal)
- XXIV. **Some Formulae for the Zagreb Indices of Graphs**  
Cangül İ. N., Yurttas Güneş A., Togan M., Çevik A. S.  
Numerical Analysis and Applied Mathematics, AIP Conf. Proc., vol.1479, pp.365-367, 2012 (Peer-Reviewed Journal)
- XXV. **Classification of normal subgroups of Hecke group  $H_6$  in terms of parabolic class number**  
Yurttas Güneş A., Demirci M., Cangül İ. N.  
Numerical Analysis and Applied Mathematics, AIP Conf. Proc., vol.1389, pp.315-316, 2011 (Peer-Reviewed Journal)
- XXVI. **Upper bounds for the level of normal subgroups of Hecke groups**  
Demirci M., Yurttas Güneş A., Cangül İ. N.  
Numerical Analysis and Applied Mathematics, AIP Conf. Proc., vol.1389, pp.337-340, 2011 (Peer-Reviewed Journal)
- XXVII. **Some properties of the minimal polynomials of  $2\cos(\pi/q)$  for odd  $q$**   
Özgür B., Demirci M., Yurttas Güneş A., Cangül İ. N.

Numerical Analysis and Applied Mathematics, AIP Conf. Proc., , vol.1389, pp.353-356, 2011 (Peer-Reviewed Journal)

**XXVIII. Determination of Genus of Normal Subgroups of Discrete Groups**

Cangül İ. N., Demirci M., Yurttaş Güneş A., Güzel Karpuz E., Ateş F.

Numerical Analysis and Applied Mathematics, vol.1281, pp.1148-1151, 2010 (Peer-Reviewed Journal)

**XXIX. Bernoulli-Frey Elliptic Curves**

İnam İ., Yurttaş Güneş A., Bizim O., Cangül İ. N.

Advances and Applications in Mathematical Sciences, vol.2009, pp.1-5, 2009 (ESCI)

## Books & Book Chapters

**I. Effect of Edge Deletion and Addition on Zagreb Indices of Graphs**

TOGAN M., YURTTAŞ A., ÇEVİK A. S., CANGÜL İ. N.

in: Mathematical Methods in Engineering-Theoretical Aspects, K. TAS, D. BALEANU, J. A. T. MACHADO, Editor, SPRINGER, pp.191-201, 2019

**II. BOUNDS ON SUBDIVISION AND  $r$ -SUBDIVISION GRAPHS AND DEGREE BASED GRAPH INDICES**

Cangül İ. N., Yurttaş A., Togan M., Çevik A. S.

in: BOUNDS IN CHEMICAL GRAPH THEORY-ADVANCES, I. GUTMAN, B. FURTULA, K. Ch. DAS, E. MILOVANOVIC, I. MILOVANOVIC, Editor, MATHEMATICAL CHEMISTRY MONOGRAPHS, Kragujevac, pp.233-254, 2017

## Refereed Congress / Symposium Publications in Proceedings

**I. Remarks on line graphs related to omega invariant**

ÖZDEN AYNA H., URLU ÖZALAN N., YURTTAŞ GÜNEŞ A., CANGÜL İ. N.

13th Symposium on Generating Functions of Special Numbers and Polynomials and their Applications, Antalya, Turkey, 11 - 13 March 2023

**II. The number of realizations of a degree sequence**

CANGÜL İ. N., ÖZDEN AYNA H., YURTTAŞ GÜNEŞ A., URLU ÖZALAN N., ÇEVİK A. S.

13th Symposium on Generating Functions of Special Numbers and Polynomials and their Applications, Antalya, Turkey, 11 - 13 March 2023

**III. Degree Sequences and Omega Invariant**

ÖZDEN AYNA H., YURTTAŞ GÜNEŞ A., CANGÜL İ. N.

International Conference of Multidisciplinary Research, Karnataka, India, 22 November 2022, pp.34

**IV. Realizability Properties of Some Sets of Integers**

YURTTAŞ GÜNEŞ A., ÖZDEN AYNA H., CANGÜL İ. N.

International Conference of Multidisciplinary Research, Karnataka, India, 22 - 24 November 2022, pp.35

**V. Recent Developments on Graph Invariants**

CANGÜL İ. N., TOGAN M., YURTTAŞ GÜNEŞ A., DELEN S.

International Conference on Advances in Mathematics and Computing-2020, Odisha, India, 7 - 08 February 2020, pp.6-8

**VI. New Applications of the Graph Invariant Omega**

CANGÜL İ. N., YURTTAŞ GÜNEŞ A., TOGAN M., DELEN S.

International Conference on Advanced Mathematical Analysis and Its Applications (ICAMAA-2020), Odisha, India, 4 - 05 February 2020

**VII. New applications of omega invariant**

Cangül İ. N., Yurttaş Güneş A., Togan M., Delen S.

Third International Conference on Current Scenario on Pure and Applied Mathematics (ICCSAM-2020), Tamil Nadu, India, 30 - 31 January 2020, pp.29

**VIII. Recent combinatorial and graph theoretical applications of omega invariant**

CANGÜL İ. N., YURTTAŞ GÜNEŞ A., TOGAN M., DELEN S.

First International Conference on Mathematical Techniques and Applications (ICMTA-2020), Tamil Nadu, India, 30 January - 01 February 2020, pp.2-6

- IX. **New applications of omega invariant**  
Cangül İ. N., Togan M., Yurttaş Güneş A., Delen S.  
Third International Conference on Current Scenario on Pure and Applied Mathematics (ICCSPAM-2020), , Tamil Nadu, India, 30 - 31 January 2020, pp.1-5
- X. **New applications of omega invariant**  
Cangül İ. N., Yurttaş Güneş A., Togan M., Delen S.  
Third International Conference on Current Scenario on Pure and Applied Mathematics (ICCSPAM-2020), Tamil Nadu, India, 30 - 31 January 2020, pp.1-4
- XI. **Connectedness of Graphs and Omega Invariant**  
Cangül İ. N., Yurttaş A., Togan M., Delen S.  
The 2nd Mediterranean International Conference of Pure Applied Mathematics and Related Areas (MICOPAM2019), Paris, France, 28 - 31 August 2019, vol.1, pp.59-62
- XII. **New Topological Results on Omega Invariant**  
Cangül İ. N., Yurttaş A., Togan M., Delen S.  
The 2nd Mediterranean International Conference of Pure Applied Mathematics and Related Areas, Paris, France, 28 - 31 August 2019
- XIII. **Omega Invariant and Its Applications on Topological Graph Theory**  
Cangül İ. N., Delen S., Yurttaş A., Togan M.  
3rd International Conference entitled Operators in General Morrey-Type Spaces and Applications (OMTSA 2019), Kütahya, Turkey, 16 - 20 July 2019
- XIV. **New Applications of Omega Invariant**  
Cangül İ. N., Yurttaş A., Togan M.  
Journées Arithmétiques, İstanbul, Turkey, 1 - 05 July 2019
- XV. **Applications of Omega Invariant in Graph Theory and Topology**  
Cangül İ. N., Delen S., Togan M., Yurttaş A.  
International Conference on Number Theory and Graph Theory, Karnataka, India, 27 - 29 June 2019
- XVI. **Omega Invariant for Graphs**  
Cangül İ. N., Yurttaş A., Togan M., Delen S.  
Second International Conference on Global Advancement of Mathematics (GAM 2019), Karnataka, India, 25 - 26 June 2019
- XVII. **Applications of Omega Invariant in Several Areas in Graphs and Combinatorics**  
Cangül İ. N., Togan M., Yurttaş Güneş A., Delen S.  
Seminar at Reva University School of Applied Sciences, Karnataka, India, 24 June 2019
- XVIII. **Applications of Omega Invariant in Graph Theory and Topology II**  
Cangül İ. N., Delen S., Togan M., Yurttaş Güneş A.  
Seminar at Christ University, Karnataka, India, 23 June 2019
- XIX. **Applications of Omega Graph Invariant**  
Cangül İ. N., Togan M., Yurttaş A., Delen S.  
International Conference on Recent Trends in Mathematics, Karnataka, India, 27 - 29 December 2018
- XX. **Applications of Omega Graph Invariant**  
Cangül İ. N., Togan M., Yurttaş Güneş A., Delen S.  
International Conference on Recent Trends in Mathematics, K. L. E. Society's Raja Lakhamagouda Science Institute, Karnataka, India, 27 - 29 December 2018
- XXI. **Omega Invariant and Its Applications in Graph Theory**  
Yurttaş A., Togan M., Delen S., Cangül İ. N.  
The Mediterranean International Conference of Pure Applied Mathematics and Related Areas, Dedicated to Professor Gradimir V. Milovanović on the Occasion of his 70th Anniversary, Antalya, Turkey, 26 - 29 October 2018, vol.1, pp.86-90

- XXII. **New Results on Edge and Vertex Deletion in Graphs**  
 Delen S., Togan M., Yurttaş A., Cangül İ. N.  
 The Mediterranean International Conference of Pure Applied Mathematics and Related Areas, Dedicated to Professor Gradimir V. Milovanović on the Occasion of his 70th Anniversary, Antalya, Turkey, 26 - 29 October 2018, pp.175-179
- XXIII. **Fundamental Forms and Omega Invariant of Graphs**  
 Delen S., Togan M., Yurttaş A., Cangül İ. N.  
 The Mediterranean International Conference of Pure Applied Mathematics and Related Areas dedicated to Professor Gradimir V. Milovanovic on the Occasion of his 70th anniversary, Antalya, Turkey, 26 - 29 October 2018
- XXIV. **Omega Invariant and Its Applications in Graph Theory**  
 Cangül İ. N., Yurttaş Güneş A., Togan M., Delen S.  
 The Mediterranean International Conference of Pure & Applied Mathematics and Related Areas dedicated to Professor Gradimir V. Milovanovic on the Occasion of his 70th anniversary, Antalya, Turkey, 26 - 29 October 2018, pp.86-90
- XXV. **Fundamental Forms and Omega Invariant of Graphs**  
 Delen S., Togan M., Yurttaş Güneş A., Cangül İ. N.  
 The Mediterranean International Conference of Pure & Applied Mathematics and Related Areas dedicated to Professor Gradimir V. Milovanovic on the Occasion of his 70th anniversary, Antalya, Turkey, 26 - 29 October 2018, pp.175-179
- XXVI. **Some applications of a new graph invariant omega**  
 Cangül İ. N., Delen S., Togan M., Yurttaş A.  
 2nd International Conference on Applied Mathematics and Numerical Methods, Craiova, Romania, 19 - 20 October 2018
- XXVII. **Some applications of a new graph invariant omega**  
 Cangül İ. N., Delen S., Togan M., Yurttaş Güneş A.  
 2nd International Conference on Applied Mathematics and Numerical Methods, Craiova, Romania, 19 - 20 October 2018, pp.61
- XXVIII. **Molecular Applications of Graph Indices**  
 Cangül İ. N., Yurttaş A., Togan M.  
 International Conference on Applied Mathematics, Modeling and Life Science Problems, İstanbul, Turkey, 3 - 05 October 2018
- XXIX. **Omega Invariant of Graphs**  
 Cangül İ. N., Delen S., Yurttaş A., Togan M.  
 International Congress of Mathematicians, Rio De Janeiro, Brazil, 1 - 09 August 2018
- XXX. **Inverse Problem for the Second Zagreb Index, Forgotten Index, Hyper-Zagreb Index and Sigma Index**  
 Yurttaş A., Togan M., Cangül İ. N.  
 International Congress of Mathematicians (ICM 2018), Rio De Janeiro, Brazil, 1 - 09 August 2018
- XXXI. **Omega Invariant of Graphs**  
 Cangül İ. N., Delen S., Yurttaş Güneş A., Togan M.  
 International Congress of Mathematicians, Rio De Janeiro, Brazil, 1 - 09 August 2018
- XXXII. **Inverse Problem for the Second Zagreb Index, Forgotten Index, Hyper-Zagreb Index and Sigma Index**  
 Yurttaş Güneş A., Togan M., Cangül İ. N.  
 International Congress of Mathematicians, Rio De Janeiro, Brazil, 1 - 09 August 2018
- XXXIII. **Inverse Problem for Some Topological indices**  
 Yurttaş Güneş A., Togan M., Cangül İ. N.  
 World Meeting for Women in Mathematics, Rio De Janeiro, Brazil, 31 July 2018
- XXXIV. **New Properties of Realizations of Degree Sequences**  
 Cangül İ. N., Delen S., Yurttaş A., Togan M.  
 Graphs, groups, and more: celebrating Brian Alspach's 80th and Dragan Marušič's 65th birthdays, Koper,

Slovenia, 28 May - 01 June 2018

- XXXV. **New Properties of Realizations of Degree Sequences**  
Cangül İ. N., Delen S., Yurttaş Güneş A., Togan M.  
Graphs, groups, and more: celebrating Brian Alspach's 80th and Dragan Marušič's 65th birthdays, Koper, Slovenia, 28 May - 01 June 2018
- XXXVI. **A New Graph Theoretical Invariant in Terms of Degree Sequence**  
Cangül İ. N., Delen S., Yurttaş A., Togan M.  
The 14th Serbian Mathematical Congress (14th SMAK), Kragujevac, Serbia, 16 - 19 May 2018
- XXXVII. **A New Graph Theoretical Invariant in Terms of Degree Sequence**  
Cangül İ. N., Delen S., Yurttaş Güneş A., Togan M.  
The 14th Serbian Mathematical Congress (14th SMAK), Kragujevac, Serbia, 16 - 19 May 2018, pp.107
- XXXVIII. **Fundamental Form of a Graph**  
Cangül İ. N., Delen S., Yurttaş A., Togan M.  
3rd International Conference on Computational Mathematics and Engineering Sciences, Girne, Cyprus (Kkct), 4 - 06 May 2018
- XXXIX. **Fundamental Form of a Graph**  
Cangül İ. N., Delen S., Yurttaş Güneş A., Togan M.  
3rd International Conference on Computational Mathematics and Engineering Sciences, Girne, Cyprus (Kkct), 04 May 2018, pp.1
- XL. **Mathematical Applications in Chemistry**  
Cangül İ. N., Togan M., Yurttaş Güneş A., Çevik A. S.  
Seminar at Mathematics Department, Acharya Institute of Graduate Studies, Karnataka, India, 24 February 2018
- XLI. **Topological Graph Indices and a new Graph Invariant**  
Cangül İ. N., Delen S., Yurttaş A., Togan M.  
Science Forum, Karnataka, India, 24 February 2018
- XLII. **Topological Graph Indices and a new Graph Invariant**  
Cangül İ. N., Delen S., Yurttaş Güneş A., Togan M.  
Science Forum, Karnataka, India, 24 February 2018
- XLIII. **Graphs and Their Applications**  
Cangül İ. N., Togan M., Yurttaş Güneş A., Çevik A. S.  
Seminar at Sri D. Devaraja Urs Govt. First Grade College, Karnataka, India, 21 February 2018
- XLIV. **Recent Advances in Graph Theory**  
Cangül İ. N., Togan M., Yurttaş Güneş A.  
Workshop on Graph Theory and Linear Algebra, Karnataka, India, 21 February 2018
- XLV. **Some Problems Related to Graph Indices**  
Cangül İ. N., Togan M., Yurttaş Güneş A., Çevik A. S.  
Seminar at Sri D. Devaraja Urs Govt. First Grade College, Hunsur, Abohar, India, 21 February 2018
- XLVI. **Recent Advances in Graph Theory**  
Cangül İ. N., Togan M., Yurttaş A.  
Workshop on Graph Theory and Linear Algebra, Karnataka, India, 21 February 2018
- XLVII. **Seminar on Graph Invariants**  
Cangül İ. N., Togan M., Yurttaş Güneş A., Çevik A. S.  
Seminar at Vijayanagara Sri Krishnadevaraya University, Ballary, Abohar, India, 21 February 2018
- XLVIII. **Inverse Problem for Topological Indices**  
Cangül İ. N., Togan M., Yurttaş Güneş A., Çevik A. S.  
Seminar at Mathematics Department, Mysore University, Karnataka, India, 20 February 2018
- XLIX. **Topological Applications of a new Graph Invariant**  
Cangül İ. N., Delen S., Yurttaş A., Togan M.  
International Conference on Current Scenario in Pure and Applied Mathematics (ICCSAM 2018, Tamil Nadu, India, 14 - 16 February 2018
- L. **Inverse Problem for Topological Indices**



Cangül İ. N., Togan M., Yurttaş Güneş A., Çevik A. S.

Seminar at Department of Mathematics, Bharathiar University, Abohar, India, 15 February 2018, pp.1

- LI. **Inverse Problems in Graph Theory**  
CANGÜL İ. N., YURTTAŞ A., Togan M.  
The Second Romanian-Turkish Mathematics Colloquium, İstanbul, Turkey, 25 - 29 January 2018
- LII. **Inverse Problems in Graph Theory**  
Cangül İ. N., Yurttaş A., Togan M.  
The Second Romanian-Turkish Mathematics Colloquium, İstanbul, Turkey, 25 - 29 October 2017
- LIII. **Degree Sequences and Inverse Problem on Graphs**  
Togan M., Yurttaş A., Cangül İ. N.  
International Conference on Recent Advances in Pure and Applied Mathematics (ICRAPAM 2017), Aydın, Turkey, 11 - 15 May 2017
- LIV. **On The Inverse Problem on Graphs**  
Yurttaş A., Togan M., Cangül İ. N.  
International Conference on Recent Advances in Pure and Applied Mathematics (ICRAPAM 2017), Aydın, Turkey, 11 - 15 May 2017
- LV. **Graph Theoretical Applications of Molecular Graphs**  
Cangül İ. N., Yurttaş A., Togan M., Çevik A. S.  
International Conference on Recent Advances in Pure and Applied Mathematics (ICRAPAM 2017), Aydın, Turkey, 11 - 15 May 2017
- LVI. **Effect of edge deletion and addition on Zagreb Indices of Graphs**  
CANGÜL İ. N., YURTTAŞ A., TOGAN M., ÇEVİK A. S.  
International Workshop on Mathematical Methods in Engineering, MME-2017, Ankara, Turkey, 27 - 29 April 2017
- LVII. **New Formulae for Zagreb Indices**  
CANGÜL İ. N., Yurttaş A., Togan M., ÇEVİK A. S.  
International Conference on Numerical Analysis and Applied Mathematics (ICNAAM), Rhodes, Greece, 19 - 25 September 2016, vol.1863
- LVIII. **New formulae for Zagreb indices**  
Cangül İ. N., Yurttaş A., Togan M., Çevik A. S.  
International Conference of Numerical Analysis and Applied Mathematics 2016, Rodos, Greece, 19 - 25 September 2016
- LIX. **Degree sequences of several graph classes**  
Cangül İ. N., Delen S., Yurttaş A., Ana U.  
ICJMSNTSFA 2016, Abohar, India, 8 - 10 August 2016, vol.1, pp.7
- LX. **Edge operations in Graphs and Zagreb Indices**  
CANGÜL İ. N., YURTTAŞ A., Togan M., ÇEVİK A. S.  
International Conference on Analysis and its Applications, Kırşehir, Turkey, 12 - 15 July 2016
- LXI. **Topological Descriptors of Some Graphs**  
Cangül İ. N., Yurttaş A., Togan M., Çevik A. S.  
3rd Istanbul Design Theory, Graph Theory and Combinatorics, İstanbul, Turkey, 12 - 18 June 2016
- LXII. **Topolojik Graf İndeksleriyle İlgili Sonuçlar ve Uygulamalar**  
Cangül İ. N., Yurttaş A., Togan M., Çevik A. S.  
11. Ankara Matematik Günleri, Ankara, Turkey, 26 - 27 May 2016
- LXIII. **Chemical Applications of Graph Indices**  
Cangül İ. N., Yurttaş A., Togan M., Çevik A. S.  
3rd INTERNATIONAL CONFERENCE ON RECENT ADVANCES IN PURE AND APPLIED MATHEMATICS, Muğla, Turkey, 19 - 23 May 2016
- LXIV. **Graph Theoretical Indices and Some Applications**  
CANGÜL İ. N., YURTTAŞ A., Togan M., ÇEVİK A. S.  
INTERNATIONAL CONFERENCE ON APPLIED MATHEMATICS AND NUMERICAL METHODS, Romania, 14 - 16 April 2016

- LXV. Relations Between Zagreb Indices of Subdivision Graphs**  
CANGÜL İ. N., YURTTAŞ A., Togan M., ÇEVİK A. S.  
28. Ulusal Matematik Sempozyumu, Antalya, Turkey, 7 - 09 September 2015
- LXVI. Some Zagreb Indices of Double Graphs**  
CANGÜL İ. N., Togan M., YURTTAŞ A., ÇEVİK A. S.  
International Conference on Recent Advances in Pure and Applied Mathematics, İstanbul, Turkey, 3 - 06 July 2015
- LXVII. Minimal Polynomials Corresponding to Spectral Sets of Some Graphs**  
Togan M., YURTTAŞ A., ÇEVİK A. S., CANGÜL İ. N.  
The 28th International Conference of Jangjeon Mathematical Society, Antalya, Turkey, 15 - 19 May 2015
- LXVIII. Some Zagreb Indices of Subdivision and  $r$  Subdivision of Doubles of Some Graphs**  
CANGÜL İ. N., YURTTAŞ A., Togan M., ÇEVİK A. S.  
The 28th International Conference of Jangjeon Mathematical Society, Antalya, Turkey, 15 - 19 May 2015
- LXIX. Topological Indices of Subdivision Graphs**  
CANGÜL İ. N., YURTTAŞ A., Togan M., ÇEVİK A. S.  
Pure and Applied Mathematics (ICRAPAM 2014), Antalya, Turkey, 6 - 09 November 2014
- LXX. Determining the minimal polynomial of  $\cos(2\pi/n)$  over  $\mathbb{Q}$  with Maple**  
Ozgur B., Yurttas A., CANGÜL İ. N.  
International Conference of Numerical Analysis and Applied Mathematics, ICNAAM 2012, Kos, Greece, 19 - 25 September 2012, vol.1479, pp.368-370
- LXXI. Calculation of the Minimal Polynomial of  $2\cos(\pi/n)$  over  $\mathbb{Q}$  with Maple**  
Yurttas A., Ozgur B., CANGÜL İ. N.  
International Conference of Numerical Analysis and Applied Mathematics (ICNAAM), Kos, Greece, 19 - 25 September 2012, vol.1479, pp.371-374
- LXXII. Hecke Gruplarının Normal Altgruplarının Seviyeleri için Üst Sınırlar**  
DEMİRCİ M., YURTTAŞ A., CANGÜL İ. N.  
XXIV. Ulusal Matematik Günleri, Bursa, Turkey, 7 - 10 September 2011
- LXXIII. Elektronik Yapı Hesabı Üzerine**  
YURTTAŞ A., CANGÜL İ. N.  
XXIV. Ulusal Matematik Günleri, Bursa, Turkey, 7 - 10 September 2011
- LXXIV. Determination of genus of normal subgroups of discrete groups**  
CANGÜL İ. N., DEMİRCİ M., Yurttas A., Karpuz E. G., ATEŞ F.  
International Conference on Numerical Analysis and Applied Mathematics 2010, ICNAAM-2010, Rhodes, Greece, 19 - 25 September 2010, vol.1281, pp.1148-1151
- LXXV. Bernoulli-Frey Elliptic Curves,**  
Cangül İ. N., İnam İ., Yurttaş Güneş A., Bizim O.  
Antalya International Algebra Days VIII, Antalya, Turkey, 22 May 2007, pp.1-12

## Expert Reports

- I. A note on hyper Zagreb coindex of graph operations  
YURTTAŞ A.  
2015

## Metrics

Publication: 145

Citation (WoS): 257

Citation (Scopus): 317

H-Index (WoS): 6

H-Index (Scopus): 8

## **Non Academic Experience**

Uludağ Üniversitesi Fen Edebiyat Fakültesi Matematik Bölümü